BRUHAT BANGALORE MAHANAGARA PALIKE

MODIFIED ESTIMATE FOR CONSTRUCTION OF SWIMMING POOL AT ALLALASANDRA LAKE PREMISES M IN WARD No. 04 OF YELAHANKA ASSEMBLEY CONSTITUENCY

						Est Cost Rs.		58499645.58
S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
1	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification							
	2nd Bill							
	Retaining Wall							
	Bund Side	1	86.00	1.60	1.00	137.60		
	Drain Side	1	32.90	1.60	1.00	52.64		
						190.24	**125.00**	**23780.00**
	Tender Quoted Rates	**125.00**					**Cum**	
2	Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(.sand and 10% cement)							
	ITEM NOT OPERATED							
3	Providing and Spreading of Sand							
	1st Bill							
	Main Pool	1	52.60	27.60	0.05	72.59		
						72.59	**2000.00**	**145176.00**
	Tender Quoted Rates	**2000.00**					**Cum**	
4	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications.							
	ITEM NOT OPERATED							
5	Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.							
	1st Bill							
						3184.40		
						2893.80	**120.00**	**347256.00**
	A) Qty upto 125%						**Cum**	
	Sanctioned Qty	2315.04						
	25% Extra Qty	578.76				**290.60**	**119.80**	**34813.88**
	Total	**2893.80**					**Cum**	
	Tender Quoted Rates	**120.00**						
	B) Qty Above 125%							
	Executed Qty	3184.40						
	Deduct upto 125%	2893.80						
	Balance Qty	290.60						

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
	CSR of 2015-16	114.2						
	Add 4.90 % Above as TP	5.60						
	Total	**119.80**						
6	Providing and filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specification.							
	1st Bill							
	Main Pool	1	52.90	27.90	0.60	885.55		
	Balancing Tank & Filtration Room	1	22.00	8.00	0.45	79.20		
						964.75		
						491.25	**2000.00**	**982500.00**
	A) Qty upto 125%						**Cum**	
	Sanctioned Qty	393.00						
	25% Extra Qty	98.25				**473.50**	**2238.34**	**1059845.04**
	Total	**491.25**					**Cum**	
	Tender Quoted Rates	**2000.00**						
	B) Qty Above 125%							
	Executed Qty	964.75						
	Deduct upto 125%	491.25						
	Balance Qty	473.50						
	CSR of 2015-16	2013.00						
	Area Weightage=6%	120.78						
	Sub Total	2133.78						
	Add 4.90 % Above as TP	104.56						
	Total	**2238.34**						
7	Providing and laying in position **Plain Cement Concrete of mix 1:3:6** with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.							
	1st Bill							
	Main Pool	1	52.10	27.10	0.15	211.79		
	Balancing Tank & Filtration Room	1	22.00	8.00	0.15	26.40		
				Sub		**238.19**		
	2nd Bill							
	Retaining Wall							
	Bund side	1	86.00	1.60	0.15	20.64		
	Drainside	1	32.90	1.60	0.15	7.90		
	Inlet pipeline outside Bed	7	1.20	0.60	0.15	0.76		

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
	Sunction pipe outside bed	3	1.20	0.60	0.15	0.32		
	Gutter pipe connection from pool to balancing tank wall bed	7	1.20	0.60	0.15	0.76		
				Sub Total		30.37		
				Total		268.56	5000.00	1342792.50
							Cum	
	Tender Quoted Rates	5000.00						
8	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixedf concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25(for Side Walls and Bottom)							
	1st Bill							
	Raft Concrete	1	52.10	27.10	0.55	776.55		
	Side Wall	2	50.00	0.25	1.60	40.00		
	Down Steam Wall	1	25.50	0.25	2.30	14.66		
	Up Steam Wall	1	25.50	0.25	1.50	9.56		
	Balancing Tank & Filtration Room							
	Raft Concrete	1	22.00	8.00	0.55	96.80		
						937.58	7000.00	6563028.50
							Cum	
	Tender Quoted Rates	7000.00						
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as Walls at any thickness, incluidng attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specfiications.							
	1st Bill							
	Main Pool-Bottom Concrete-Centering all							
	Up Steam	1	27.10	0.55		14.91		
	Down Steam	1	27.10	0.55		14.91		
	Sides- Ls & Rs	2	52.10	0.55		57.31		
	Side walls-Upstream	2	25.00	1.50		75.00		
	Down stream-wall	2	25.00	2.30		115.00		
	Sides-Up stream	4	15.00	1.20		72.00		
	Center-Slope	4	20.00	1.60		128.00		
	Down stream	4	15.00	2.00		120.00		
						597.12	350.00	208992.00
							Smt	
	Tender Quoted Rates	350.00						
10	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick							
	ITEM NOT OPERATED							

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
11	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.							
	ITEM NOT OPERATED							
12	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as eper spec ifications and Extra for providing and mixing Waterproofing compound in cement plaster work at one kg per bag or in the proportion recomended by the manufacturers, for cement mortar 1:3, 12mm thick cost of materials complete as per specifications.							
	2nd Bill							
	Pool Inside plastering							
	Upstream wall	1	25.00		1.50	37.50		
	Downstream wall	1	25.00		2.30	57.50		
	Side walls	2	50.00		1.60	160.00		
	Bottom	1	25.00		50.00	1250.00		
	Pump house room inner							
	Long wall	2	7.00		3.00	42.00		
	Short wall	2	5.50		3.00	33.00		
	Balancing tank inside					0.00		
	Long wall	2	14.60		3.00	87.60		
	Short wall	2	7.00		3.00	42.00		
						1709.60	**300.00**	**512880.00**
							Smt	
	Tender Quoted Rates	**300.00**						
13	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M-20 for RCC Works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing main and secondary beams with all lead and lifts etc. compelte (exclusive of cost of steel and fabrication charges)							
	ITEM NOT OPERATED							
14	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500							
		No		Length	16mm	12mm	8mm	
	1st Bill							
	Pool Area							
	Bottom Mat-Longitude	1	187.00	52.90	9892.30			

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
	5 Laps-Longitude	5	186.00	0.70	651.00			
	Bottom Mat-Latitude	1	354.00	27.90	9876.60			
	3 Lap-Latitude	3	354.00	0.70	743.40			
	Chairs							
	Latitude -18 Nos	18	60.00	2.80	3024.00			
	Top Mat	1	187.00	52.90	9892.30			
	Top Mat	5	186.00	0.70	651.00			
	Top Mat	1	354.00	27.90	9876.60			
	Lap Latitude	3	354.00	0.70	743.40			
	Side Walls-Up stream side- Bar length- (1.2+.55+.6) = 2.35	2	257.00	2.35	1207.90			
	Side Walls-down stream side-Bar Length- (2+.55+.6) = 3.15	2	257.00	3.15	1619.10			
	Side Walls-side- (2.35+3.15)/2 = 2.75 Avg Rod length 2.75	4	501.00	2.75	5511.00			
	Distribution Bars- Up stream	2	15.00	25.60		768.00		
	Down Stream	2	19.00	25.60		972.80		
	Sides	4	15.00	50.60		3036.00		
	Laps 2 sides Upstream wall	2	15.00	0.70		21.00		
	Laps 2 sides down stream wall	2	19.00	0.70		26.60		
	Side walls-2x2	4	15.00	0.70		42.00		
	U Bars							
	Longitude-3 Rows - 2sides x 3	6	37.00	1.05	233.10			
	Latitude-3 Rows - 2sides x 3	6	19.00	1.05	119.70			
	Balancing & Filteration Area							
	Bottom Mat							
	Longitude	1	53.00	22.90	1213.70			
	Latitude	1	148.00	8.60	1272.80			
	Laps	1	53.00	0.70	37.10			
	Chairs	1	60.00	2.80	168.00			
	Top Mat							
	Longitude	1	53.00	22.90	1213.70			
	Latitude	1	148.00	8.60	1272.80			
	Laps	1	53.00	0.70	37.10			
	Side Walls-Long Wall	4	220.00	4.15	3652.00			
	Short wall-3 walls inner side	6	71.00	4.15	1767.90			
	U Bars							
	All round	3	42.00	1.05	132.30			

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
	Col. Stirups- 14 Col. Each Col. 14 Nos	14	21.00	1.40			411.60	
	Distribution Bars-Main Wall	4	29.00	21.60		2505.60		
	Laps	4	29.00	0.70		81.20		
	Short wall	6	29.00	7.60		1322.40		
			Total Qty in		**64808.80**	**8775.60**	**411.60**	
			Total Mtrs		**Constant Kg /Mtr**	**Total in Kgs**		
	16mm		**64808.80**		**1.58**	**102268.29**		
	12mm		**8775.60**		**0.89**	**7792.73**		
	8mm		**411.60**		**0.40**	**162.58**		
			Total Qty in Kgs			**110223.60**		
				Sub total		**110.22**		
		No		**Length**	**16mm**	**12mm**	**8mm**	
	2nd Bill							
	1) Retaining wall Raft	675	1	2.00		1350.00		
	Bottom main @ 125 c/c	11	1	86.75		954.25		
	Bottom distribution	675	1	2.00		1350.00		
	Top main @ 125 c/c	6	1	86.75		520.50		
	Top distribution	98	1	1.85		181.30		
	Chairs					0.00		
	2) Retaining wall Raft	258	1	2.00		516.00		
	Bottom main @ 125 c/c	8	1	33.65		269.20		
	Bottom distribution	258	1	2.00		516.00		
	Top main @ 125 c/c	6	1	33.65		201.90		
	Top distribution	60	1	1.85		111.00		
	Chairs					0.00		
	3) Retaining wall along bund side	430	2	3.90	3354.00			
	Longer bar 200 c/c	430	2	3.30	2838.00			
	Shorter bar 200 c/c	19	2	86.00		3268.00		
	Distribution (2 sides)	4	2	86.00		688.00		
	above 2.4 (1.0)	62	1	1.25		77.50		
	U-bars @ bottom	62	1	1.15		71.30		
	U-bars @ Center							
	4) Retaining wall along drain side	162	2	3.90	1263.60			
	Longer bar 200 c/c	162	2	3.30	1069.20			
	Shorter bar 200 c/c	19	2	32.90		1250.20		
	Distribution	7	2	32.90		460.60		
	above 2.4 (1.0)	25	1	1.25		31.25		
	U-bars @ bottom	25	1	1.15		28.75		
			Total Qty in		**8524.80**	**11845.75**		
			Total Mtrs		**Constant Kg /Mtr**	**Total in Kgs**		
	16mm		**8524.80**		**1.58**	**13469.18**		

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
	12mm		11845.75		0.89	10542.71		
			Total Qty in Kgs			24011.89		
				Sub total		24.01		
				TOTAL		134.23	80000.00	10738400.00
							MT	
	Tender Quoted Rates	80000.00						
15	Providing pre cast urocon tiles, red colour for footpath 20mm thickusing marble chilps at 7-10 nominalsize laid on bed CM 1:3 mix & jointd with red oxide cement slurry mixed pigment to match the shade of tiles, rubbing polishing , oxalicacid was, wax polish including cost of all materials and labour (Approved							
	ITEM NOT OPERATED							
16	Providing and constructing precast concrete Solid Blocks with compressive strength not less than 35 kg/sqm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size **40x20x20cms** confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per specifications.							
	2nd Bill							
	Balancing tank walls from Pump house side							
	Main wall	2	2.65		2.70	14.31		
		2	2.35		2.70	12.69		
		1	3.48		2.70	9.40		
		2	3.37		2.70	18.20		
		1	3.50		2.70	9.45		
		2	3.35		2.70	18.09		
	Cross wall	5	3.35		2.70	45.23		
	wall below suction pipe supports	16	0.80		1.50	19.20		
						146.56	1000.00	146559.00
							Sqm	
	Tender Quoted Rates	1000.00						
17	Providing and laying Pre-Cast Slab using 20mm and downsize graded course aggregate stone using clean sieved approved sand including cost and conveyance of all materials, all lead and lift, labour charges of machinery etc., complete 10 cm thick as directed by Engineer in Charge CC 1:1.5:3 (Inclusive of cost of steel and fabrication charges) Approved Data Rates							
	ITEM NOT OPERATED							
18	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hardsoil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification							
	ITEM NOT OPERATED							
19	Providing sand piles with all leads and lift of 1.5 m. for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m. at 0.5 m c to c and filling with sand and tamping wherever required including cost of materials, labour complete as per specifications(.sand and 10% cement)							
	ITEM NOT OPERATED							

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
20	Providing and Spreading of Sand							
	1st Bill							
	Balancing tank	1	22.00	8.00	0.05	8.80		
						8.80	**2000.00**	**17600.00**
	Tender Quoted Rates	**2000.00**					**Cum**	
21	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification.							
	ITEM NOT OPERATED							
22	Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.							
	ITEM NOT OPERATED							
23	Providing and laying in position Plain Cement Concrete of mix 1:3:6 with OPC cement @ 220kgs ,with 40mm and down size graded granite metal coarse aggregates @ 0 .892 cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation including cost of all materials,labour, HOM of machinery ,curing complete as per specifications.							
	ITEM NOT OPERATED							
24	Providing and constructing granite / trap / basalt Size Stone Masonry in foundation with cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course							
	ITEM NOT OPERATED							
25	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M-20 for RCC Works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing main and secondary beams with all lead and lifts etc. compelte (exclusive of cost of steel and fabrication charges)							
	ITEM NOT OPERATED							
26	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, **Footings,** bases of columns for mass concrete including cost of all materials, labour complete as per specifications and direction of the Engineer in charge.							
	ITEM NOT OPERATED							
27	Providing and removing Centering, shuttering, strutting, propping etc., for **columns,** pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per							
	1st Bill							
	Balancing tank & Filteration Room-For .							
	Allround outside	1	60.00		3.00	180.00		
	Innerside-Balancing tank allround	1	44.00		2.80	123.20		
	Innerside-Filteration room allround	1	24.00		3.00	72.00		
						375.20	**350.00**	**131320.00**
	Tender Quoted Rates	**350.00**					**Sqm**	

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
28	Providing and removing Centering, shuttering, strutting, propping etc.,and removal of from work for vertical surface such as walls at any thickness including attched plasters, butresses, plinth cills and string courses cost of all							
	1st Bill							
	Balancing tank &							
	For Raft Concrete-Long wall	2	22.00		0.55	24.20		
	Short wall	2	8.00		0.55	8.80		
						33.00	**350.00**	**11550.00**
							Sqm	
	Tender Quoted Rates	**350.00**						
29	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of **beams**, beam haunchings, cantilever girders, bressuemers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications.							
	2nd Bill							
	Retaining wall-Raft concrete							
	Bund side	2	86.00		0.45	77.40		
	Drain side	2	32.90		0.45	29.61		
	Balancing tank							
	Roof slab	1	14.60		7.00	102.20		
	Beam side	6	7.00		0.40	16.80		
	Retaining wall							
	Bund side wall	2	86.00		2.50	430.00		
	Drain side wall	2	32.90		2.40	157.92		
	Balancing tank							
	Column upto lintel	17	1.20		2.40	48.96		
	above lintel	17	1.20		0.30	6.12		
	Lintel side					0.00		
	Long wall	4	21.00		0.30	25.20		
	side wall	4	7.00		0.30	8.40		
	Balancing tank & Pump house	2	3.35		0.30	2.01		
	Door bottom	2	3.48		0.30	2.09		
						906.71	**350.00**	**317347.80**
							Sqm	
	Tender Quoted Rates	**350.00**						
30	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs landings balconies and likes thickness upto 200 mm including cost of all materials labour complete as per specifications upto 3.50m from Ground level							
	ITEM NOT OPERATED							
31	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregares of ready mixef concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25(**for Staircase)**							

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
	1st Bill							
	Balancing Tank & Filtration Room - Side walls							
	Long wall	2	21.00	0.30	3.00	37.80		
	Side wall	3	7.00	0.30	3.00	18.90		
				Sub total		**56.70**		
	2nd Bill							
	Retaining wall-Bund side							
	Raft foundation	1	86.00	1.50	0.45	58.05		
	Drain side raft	1	32.90	1.50	0.45	22.21		
						80.26		
	Balancing tank							
	Balancing tank - Roof	1	15.20	7.60	0.20	23.10		
	Balancing tank - Beams	3	7.00	0.30	0.40	2.52		
						25.62		
	Retaining wall							
	Bund side wall	1	86.00	0.38	2.50	80.63		
	Drain side wall	1	32.90	0.38	2.40	29.61		
						110.24		
	Inlet pipe outside below pipe over raft concrete	7	1.20	0.60	0.40	2.02		
	Inlet pipe below pipe from pool to balancing tank	3	1.20	0.60	1.00	2.16		
	Inlet pipe outside below elbow concrete	7	1.20	0.60	1.00	5.04		
	Suction pipe outside below pipe over raft concrete	3	1.20	0.60	0.40	0.86		
	Suction pipe elbow side concrete	3	1.20	0.60	1.00	2.16		
	Concrete wall from pool to pump house	1	8.50	0.60	0.45	2.30		
						14.54		
	Balancing tank							
	Columns above roof	17	0.30	0.30	3.00	4.59		
	Lintels from pump house side	2	2.65	0.20	0.30	0.32		
		2	2.55	0.20	0.30	0.31		
		2	3.48	0.20	0.30	0.42		
		2	3.37	0.20	0.30	0.40		
		2	3.50	0.20	0.30	0.42		
		2	3.35	0.20	0.30	0.40		
		5	3.35	0.20	0.30	1.01		
						7.86		
				Sub total		**238.51**		

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
				Total		295.21	7000.00	2066501.50
							Cum	
	Tender Quoted Rates	7000.00						
32	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specifications.(Gallery and Staircase)							
	ITEM NOT OPERATED							
33	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**TMT Bars Fe 500**							
		No		Length	16mm	8mm		
	2nd Bill							
	Pile Foundation-600mm							
	Main bars	64	12	16.50	12672.00			
	rings	64	8	1.80		921.60		
	Spiral rings	1	64	108.00		6912.00		
	Pile Foundation-500mm							
	Main bars	12	12	16.50	2376.00			
	rings	12	8	1.60		153.60		
	Spiral rings	1	12	105.00		1260.00		
	Gallery	44	12	16.50	8712.00			
	Rings	44	8	1.55		545.60		
		1	44	105.00		4620.00		
			Total Qty Mtr		**23760.00**	**14412.80**		
		Total Mtrs			**Constant kg/Mtr**	**Total in Qty**		
	16mm		**23760.00**		**1.58**	**37540.80**		
	8mm		**14412.80**		**0.39**	**5620.99**		
						43161.79		
						43.16	**80000.00**	**3452800.00**
							M.T	
	Tender Quoted Rates	**80000.00**						
34	Providing and constructing precast concrete **Solid Blocks** with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 masonry (quion, jamb, closer blocks) with Solid Concrete Blocks of size **40x20x20 cms** confirming to I.S 2185/1965 in Superstructure including cost of all materials, labour charges, scaffolding, curing complete as per							
	ITEM NOT OPERATED							

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
35	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.For **Outside Plastering**							
	2nd Bill							
	Pool wall outside							
	Up stream wall	1	25.60		1.50	38.40		
	Down stream wall	1	25.60		2.30	58.88		
	side wall	2	50.60		1.60	161.92		
	Balancing tank outside wall (For concrete wall)							
	Long wall	2	21.00		3.00	126.00		
	Short wall	2	7.60		3.00	45.60		
	For Solid block outside							
	Long wall	2	21.00		2.70	113.40		
	Short wall	2	7.60		3.00	45.60		
						589.80		
	Deduction							
		2	3.48		2.40	16.70		
				Net		**573.10**	**250.00**	**143274.00**
							Sqm	
	Tender Quoted Rates	**250.00**						
36	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge Providing lime rendering for plastering to wall and ceiling including cost of mate3rials labour curing complete as per specifications **Internal wall platering**							
	2nd Bill							
	Balancing tank ceiling							
	Ceiling	1	14.60		7.00	102.20		
	Beam side-3 Nos	6	7.00		0.40	16.80		
	Filteration room inside							
	Main wall	2	14.60		2.70	78.84		
	Cross wall	1	7.00		2.70	18.90		
	Cross wall	1	3.35		2.70	9.05		
	Pump house							
	Cross wall	1	7.00		2.70	18.90		
	Cross wall	2	5.50		2.70	29.70		
	Cross wall	1	3.35		2.70	9.05		
						283.43		
	Deduction							
		2	3.50		2.40	16.80		
						266.63	**250.00**	**66657.50**
							Sqm	
	Tender Quoted Rates	**250.00**						

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
37	Providing and laying M-15 cement concrete flooring, 60mm thick with metallic concrete hardner topping under layer of 45mm thick M-15 cement concrete using broken granite metal of 20mm and down size, and top layer 15mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt), including finishing cost of materials, labour, curing complete as per specifications.							
	ITEM NOT OPERATED							
38	Providing and laying Flooring using pre polished water cut/gang saw 19mm thick grey granite laid over bed of 20mm thick 1:4 cm and jointed with neat cement slutty mixed with pigment to match shade of granite slabs including laying POP on finished surfaqce and cleaning the surface including the cost of all m,aterials and laboutsd etc. complete as per specifications.							
	ITEM NOT OPERATED							
39	Providing and laying Hassan Green Granite flooring for Staircase, treads and rises using pre polished 20mm thick water cut green Granite Slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 lline grooves not more than 2mm wide for antiskidding, curing etc., complete.							
	ITEM NOT OPERATED							
40	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.of size 30 x 30 cms 6mm thick							
	ITEM NOT OPERATED							
41	Providing Skirting, Dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over roughj plaster surface (excluding cost of rough plastered surface which should be measured and paid separetely) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. 15x15 cms 6mm thick							
	ITEM NOT OPERATED							
42	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.							
	ITEM NOT OPERATED							

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
43	Fabricating, supplying & erecting M.S. angular Truss of all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 nos of of M.S. anchor bolts at each support, with base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification							
	2nd Bill							
	Top Pipe	7	9.40			65.80		
	Bottom Pipe	7	9.00			63.00		
	Between verticle pipe	63	0.30			18.90		
				Sub total		**147.70**		
	Trum Pipe-40mm							
	Main wall	56	1.10			61.60		
				Sub total		**61.60**		
	Purlin							
	8mm guage pipe	9	21.30			191.70		
				Sub total		**191.70**		
		28	0.31	0.31		2.69		
			Constant					
	50mm		147.70	2.90		428.33		
	40mm		61.60	2.65		163.24		
	Purlin 80x40		191.70	3.64		697.79		
	8mm Gauge plate-		2.69	62.80		168.98		
	Ancha belt 14 Columns		42.00	2.00		84.00		
						1542.34	**125.00**	**192792.53**
							Sqm	
	Tender Quoted Rates	**125.00**						
44	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755 550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.							
	2nd Bill							
	Balancing Tank Roof							
		1	21.60		10.00	216.00		
						216.00	**850.00**	**183600.00**
							Sqm	
	Tender Quoted Rates	**850.00**						
45	Providing ACE paint to external walls of approved colour and shade over prime's coat.after brooming & cleaning the surface and applying two coats of ACE paint with cost of all material,labour,lead lift with loading unloading etc.complete as per direction of Engineer in charge of work.(Approved rates)							

S.No	DESCRIPTION OF WORK	N	L	B	D	QTY	RATE/ UNIT	AMOUNT
	ITEM NOT OPERATED							
46	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications							
	ITEM NOT OPERATED							
47	Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge.with primer							
	ITEM NOT OPERATED							
48	Providing and fixing factory made PVC Door Frame of size 50x47mm with a wall thikness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners and jointed 2 Nos of 150mm long brackets of 15x15mm M.s.Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 guage. The door frame to be fixed to the wall using M.S.Screws of 65/80mm size complete as per manufacturers specification and							
	ITEM NOT OPERATED							
49	Providing and fixing 30mm thick factory made rigid foam with both side prelampanelled Door Shutters made from M.S tube of 19x19mm, 19 gauge for styles and 15x15mm for top and bottom rails, covered with heat moulded prelaminated PVC C Channel of 5mmthick sheet and 30x50mm wide to form styles and 5mm thick and 75mm wide prelaminated PVC sheets for top rail, lock rail and bottom rail on either side and 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail and bottom rail, Panelling of 5mm thick PVC Sheet Prelaminated one ither side fitted int he M.S.Frame, Sealed tot he styles and rails with PVC Designer beading on either side and joined together with solvent cement adhesive etc., complete as per manufacturers specification and direction of Engineer-in-charge fixed to grames with 3 nos of 75mm Aluminium hinges							
	ITEM NOT OPERATED							